July 26, 2011

To: W. Randy Smith, Vice Provost, Office of Academic Affairs
From: Terry L. Gustafson, Special Assistant to the Executive Dean for Semester Conversion

Re: Arts and Sciences Comments on FAES Minors

The Arts and Sciences Committee on Curriculum and Instruction (CCI) has reviewed the following minors from the College of Food Agriculture and Environmental Science (FAES). The revised minor proposals were approved unanimously by the CCI.

Terminated - Natural Resources Management Minor
Converted - Rural Sociology Minor
Converted - Soil Science Minor
Credit Hour Explanation

<table>
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<tr>
<th>Program credit hour requirements</th>
<th>A) Number of credit hours in current program (Quarter credit hours)</th>
<th>B) Calculated result for 2/3rds of current (Semester credit hours)</th>
<th>C) Number of credit hours required for proposed program (Semester credit hours)</th>
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<td></td>
<td>Maximum</td>
<td>25</td>
<td>16.7</td>
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Program Learning Goals

Students will:

- Gain a basic understanding of soils.
- Understand the fate of chemicals and waste products applied to or buried in soil.
- Gain background information to identify and understand soils and the climate and processes under which they form.
- Understand economic and political problems related to soils in developing countries.
- Gain decision-making knowledge related to soils helpful to employment in agricultural production, marketing, management, and conservation.

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? No
Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Pre-Major

Does this Program have a Pre-Major? No

Attachments

- Undergraduate Minor in Soil Science Rationale.doc: Soil Science Minor Rationale
  (Program Rationale Statement. Owner: Hitzhusen,Gregory Ernest)
- SR_Minor.pdf: Soil Science Minor Quarter Advising Sheet
  (Quarter Advising Sheet(s). Owner: Hitzhusen,Gregory Ernest)
- SENRcoverLetterFinal.pdf: SENR cover letter
  (Letter from Program-offering Unit. Owner: Hitzhusen,Gregory Ernest)
- MinorsChangesReq.docx: summary of revisions to ENR minors
  (Other Supporting Documentation. Owner: Hitzhusen,Gregory Ernest)
- Soil Science MNsemAdv_final.doc: Soil Science minor semester advising sheet
  (Semester Advising Sheet(s). Owner: Hitzhusen,Gregory Ernest)
- MinorsTransitionPlanFinal.docx: SENR minors transition plan
  (Transition Policy. Owner: Hitzhusen,Gregory Ernest)

Comments

- Feedback sent to Assistant Dean Pfister. (by Vankeerbergen,Bernadette Chantal on 07/18/2011 03:38 PM)
- Program/Plan Code Abbreviation should be “SOILSCI-MN” to be consistent with all other soil science majors, minors, and specializations.

Semester course list is included in semester advising sheet.

Transition plan has been uploaded as attachment.

Summary of changes made in response to Science subcommittee requests is attached as: MinorsChangesReq.doc.
(by Hitzhusen,Gregory Ernest on 06/05/2011 06:55 PM)
# Workflow Information

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CAA 4 of 17
To: The Office of Academic Affairs  
From: Ron Hendrick, Professor and Director  
Date: November 23, 2010  
Re: School of Environment and Natural Resources Semester Program Proposals

The faculty and staff of the School of Environment and Natural Resources (SENR) have completed a thorough review and revision of our undergraduate and graduate curricula in preparation for the conversion to semesters, and the SENR faculty has voted to recommend that the Office of Academic Affairs approve the attached semester curriculum proposals. In addition to the work of several curricular sub-committees within the School, the SENR Academic Affairs Committee reviewed and approved all semester conversion plans for undergraduate programs, and the SENR Graduate Studies Committee reviewed and approved plans for the MS, PhD, and MENR graduate programs. SENR faculty approved these semester plans by unanimous vote (25 in favor, 0 opposed, 0 abstentions) on April 16, 2010; subsequent minor revisions and updates to the plans have been approved by SENR curriculum committees as appropriate.

The following outline details the SENR programs proposed for semester: A) conversion, B) new approval, C) deactivation, and D) termination.

A. Existing SENR programs to be converted to semesters include:
(Nota: Rural Sociology programs included below became part of SENR in 2010; program degree codes are in parentheses following program titles; specialization three-letter codes are in parentheses following specializations.)

**Four Undergraduate Majors:**
1) Environmental Science (ENVSCI-BS): modified from four to five specializations representing existing focal areas in the major, including Ecosystem Restoration (ECR), Water Science (WTR), Environmental Molecular Science (EMS), Soil Resources and Environmental Sustainability (SOI), and Environmental Science Education (ESE).
2) Forestry, Fisheries, and Wildlife (FFW-BS): converted as semester equivalent, with appropriate revisions to maintain certification and double-certification options uniquely available (compared with other programs nationally) to students in this major, including Society of American Foresters (SAF) accreditation and The Wildlife Society (TWS) and American Fisheries Society (AFS) certifications. Three-letter specialization codes for FFW specializations (FAS, FOR, FWM, UFW, WFS, WPV, WLS) are detailed in the comment field of the FFW-BS program request.
3) Environmental Policy and Decision Making (ENVPDM-BS): modified in title (previously Environmental Policy and Management (EPM)) and designating three specializations based on existing focal areas in the major: Climate Change (CCP), International Issues (IIP), and Water Conservation (WCP).
4) Natural Resource Management (NATRESM-BS): modified in title (previously Parks, Recreation & Tourism (PRT)) and designating three specializations based on existing and emerging focal areas (made possible by the addition of Rural Sociology faculty to SENR in 2010) in the major: Parks and Recreation Management (PRM), Natural Resource Administration and Management (NRA), and Sustainable Agriculture (SAG), with additional focus-area options (non-transcript) aligned with employment opportunities and existing programs in the School: Forestry, Fisheries, Wildlife, Soil and Water, Visitor Services, and Zoo Science and Management.

**Two Undergraduate Minors:**
1) Soil Resources (SOILSCI-MN): converted as semester equivalent.
2) Rural Sociology (RURLSOC-MN): converted as semester equivalent.
Two Graduate Degree Programs:
1) Master of Science (ENVNATR-MS): converted as semester equivalent
2) Doctor of Philosophy (ENVNATR-PH): converted as semester equivalent
The Environment and Natural Resources Graduate Program awards both MS and PhD degrees in seven areas of specialty (all converted as semester equivalents):
- Ecological Restoration (ERS)
- Ecosystem Science (ECS)
- Environmental Social Sciences (ESS)
- Rural Sociology (RS)
- Fisheries and Wildlife Science (FWS)
- Forest Science (FS)
- Soil Science (SSC)

Three Graduate Minors (all converted as semester equivalents):
1) Environment and Natural Resources (ENVNATR-GM)
2) Soil Science (SOILSCI-GM)
3) Rural Sociology (RURLSOC-GM)

One Professional Degree Program (converted as semester equivalent):
1) Master of Environment and Natural Resources (ENVNAT-MEN)

Three Combined Programs (all combined programs will be converted as semester equivalents, and impose no additional requirements or provisions beyond the requirements of the combined degrees. As such, and abiding all college and university rules of the degree-granting partners, forms for these combined degrees are not included in these SENR semester electronic program proposals):
1) Combined BS/MS
2) Combined BS/MENR
3) Dual Degree Program with the John Glenn School of Public Affairs: MS/MAPPM (Master of Arts in Public Policy and Management) or MS/MPA (Master of Public Administration)

B. New SENR semester programs proposed for approval by OAA:
Four undergraduate minors have been developed for semesters. Three minors correspond with existing majors in the School; these three minors collectively replace the Natural Resources Management minor. The fourth minor, Sustainable Agriculture, has been developed through the collaboration of Rural Sociology and Soils faculty, together with colleagues from across the College of Food, Agricultural and Environmental Sciences.

Undergraduate Minors:
1) Environmental Science (ENVSCI-MN)
2) Forestry, Fisheries & Wildlife (FFW-MN)
3) Society and Environmental Issues (SOCENV-MN)
4) Sustainable Agriculture (SUSTAGR-MN)

C. SENR programs to be deactivated:
Each listed below is an old program name that has been replaced by current programs listed above, either through revised titles (1-3), or being subsumed as a specialization into the ENR MS and PhD (4-9). With the exception of Rural Sociology, which joined SENR in 2010, each of these changes were effected three or more years ago.
1) Fisheries and Wildlife Management (FWMGT-BS)
2) Forestry and Urban Forestry (FORUF-BS)
3) Human Dimensions in Natural Resources (HDNR-BS)
4) Natural Resources (NATRES-PH)
5) Natural Resources (NATRES-MS)
6) Rural Sociology (RURLSOC-MS)
7) Rural Sociology (RURLSOC-PH)
D. SENR programs to be terminated:
1) Natural Resources Management Minor (NATRESM-MN): this minor is being terminated because of its broad scope and is being replaced by the more specific new minors listed above that correspond to existing majors.

SENR faculty and staff have worked tirelessly to develop these plans, engaging in a thorough and collegial process. Two faculty retreats devoted significant time to semester conversion plans, and all faculty meetings beginning in the fall of 2009 included updates and discussion about semester conversion planning. Dr. Greg Hitzhusen was appointed by the School as a point person to facilitate Q2S planning, participated in regular UCAT Q2S workshops with colleagues from across the university, and established a Carmen site to share and organize Q2S working documents and resources. In addition to the committees mentioned above, several new committees led the curriculum development process, including four faculty working groups formed within each of the majors, and a core curriculum committee of a dozen faculty representing all of the specializations across the four undergraduate majors and including myself and the chairs of the Grad Studies Committee and Academic Affairs Committee. These groups reviewed all recent SENR curriculum revisions, researched semester programs of peer institutions, and generated creative proposals of how to improve and better integrate our multi-disciplinary curriculum. Curriculum mapping revealed gaps and overlap in our curriculum; to match our semester courses to our learning goals, at least nine new courses have been proposed, several others have been merged, and at least 75 courses will be discontinued. As a previous director of a Natural Resources program that underwent semester conversion at the University of Georgia, I provided guidance to revise SENR’s curricular offerings around our core strengths, guided by learning outcome goals and encouraging options beyond existing structures and traditions. Several SENR faculty and staff participated in the College of Food, Agricultural, and Environmental Sciences bi-weekly Q2S Implementation Committee meetings starting in November 2009, sharing planning ideas with Q2S point people from across the College.

We also based our semester curriculum development on several faculty-led research efforts. Our social science faculty created a survey of environmental curriculum interests and career goals for CFAES, SENR and OSU undergraduate student samples, and results from over 1300 respondents (published results now in press) informed our vision of student interests, needs, and knowledge about the environmental topics addressed in SENR programs. We also completed phone interviews with SENR alumni and stakeholders to examine curricular elements most valuable to graduates and employers. And I conducted exit interviews of SENR students to better understand their experience in SENR programs. These measures and the efforts mentioned above collectively led the faculty to propose an expanded core of courses to help SENR students better integrate natural and social science elements of the curriculum, and to modify the majors as described above. The core curriculum committee will remain intact to monitor the quality and success of the semester curriculum, and make revisions as appropriate into the future.

This proposed curriculum represents welcome changes that increase the efficiency and complementarity of SENR programs, maximizing the expertise of our faculty and improving opportunities for SENR students to prepare for graduate education and succeed in their professional careers. I have also attached a commentary detailing SENR’s preliminary assessment plans for semester programs. These program proposals reflect the outstanding collaborative efforts of SENR faculty to prepare for the semester transition. I heartily recommend approval of these plans, and appreciate OAA’s ongoing efforts to strengthen our curriculum in OSU’s transition to semesters.

Ronald L. Hendrick, Ph.D.
Director, SENR
Undergraduate Minor in Soil Science

Program Rationale

Soil is a fundamental resource for ecosystem function and environmental health. It is a living filter that provides vital ecosystem services – including food production, water purification, carbon sequestration, nutrient recycling, and assimilation of waste products. Soil is a key component of natural agricultural, wildland, and urban ecosystems that sustain all global processes. Soil science is highly interdisciplinary; soil scientists apply biology and microbial ecology, chemistry, earth sciences, ecology, hydrology, mineralogy, mathematics, nutrition, toxicology, and physics to understand, sustain, and improve the environment.

The minor in Soil Science is designed to introduce students to basic soil environmental science concepts, techniques and practices. A diverse range of soil science course offerings provide experience with geospatial analysis, computer modeling, spectroscopy, bioassays, molecular biology, and other advanced field and lab technology for soil investigation. A total of 16 semester hours are required.
Undergraduate Minor in Soil Science

A minor in soil resources is useful for students majoring in agriculture who plan to seek employment in areas of agricultural production, marketing, management, and conservation, i.e., areas in which decision-making requires a basic understanding of soils. The minor is also valuable for students in the Arts and Sciences and other students who would like to understand the fate of chemicals and waste products that are applied to or buried in the soil. For students in Geology, Geography, Anthropology and Archeology, this minor will provide background information for identifying and understanding soils and the climate and processes under which they are formed. Since soil is the basic resource on which civilizations are built, students in an international program, or who are interested in working in developing countries of the world, will acquire a background in soils that will help them relate to the economic and political problems of these developing countries.

Soil is a fundamental resource for ecosystem function and environmental health. It is a living filter that provides vital ecosystem services – including food production, water purification, carbon sequestration, nutrient recycling, and assimilation of waste products. Soil is a key component of natural agricultural, wildland, and urban ecosystems that sustain all global processes. Soil science is highly interdisciplinary; soil scientists apply biology and microbial ecology, chemistry, earth sciences, ecology, hydrology, mineralogy, mathematics, nutrition, toxicology, and physics to understand, sustain, and improve the environment.

The minor in Soil Science is designed to introduce students to basic soil environmental science concepts, techniques and practices. A diverse range of soil science course offerings provide experience with geospatial analysis, computer modeling, spectroscopy, bioassays, molecular biology, and other advanced field and lab technology for soil investigation.

A Soil Science minor consists of 16 semester units* chosen as follows:

Required Environment and Natural Resources Courses (4 units):

ENR 3000       Introduction to Soil Science (3 units)
ENR 3001       Soil Science Laboratory (1 unit)

Required Electives (12 units):

ENR 4260       Soil Management (3 units)
ENR 5279       Urban Soil and Ecosystem Services: Assessment and Restoration (3 units)
ENR 5270       Soil Fertility and Fertilizers (3 units)
ENR 5260       Soil Landscapes: Morphology, Genesis & Classification (3 units)
ENR 5262       Soil Chemical Processes and Environmental Quality (3 units)
ENR 5263       Biology of Soil Ecosystems (3 units)
ENR 5261       The Soil Physical Environment (3 units)
ENR 5273       Environmental Fate and Impact of Contaminants in Soil and Water (3 units)
ENR 5265       Characterization of Soil in the Field and Laboratory (2 units)
ENR 5274       Computer Simulation of Soil Hydrological and Biogeochemical Processes (2 units)
ENR 5266       Field Soil Investigation: Soil Chemistry, Fertility and Biology (3 units)
ENR 7530**     Soil Mineralogy (3 units)
ENR 6610**     Soil and Environmental Biochemistry (2 units)
* Some courses may include prerequisites not indicated here.
** Graduate level courses require permission of advisor.

1. The minor is not available to student majoring in Environmental Policy and Decision Making; Environmental Science; Natural Resources Management; Forestry, Fisheries and Wildlife; Agronomy; Horticulture and Crop Science; Plant Health Management or Turfgrass Science.

2. A minimum overall GPA for courses comprising the minor shall be 2.00.

3. A minor should be declared at the time a student accumulates 60 hours.

4. A maximum of one course may overlap between the minor and the GE (Writing and Communication, Foreign Language, Literature, Visual and Performing Arts, Culture and Ideas, Historical Study, Quantitative Reasoning, Data Analysis, Natural Science, Social Science, Cross-Disciplinary Seminar, Service-Learning, Education Abroad).

5. Courses taken on a pass/non pass basis may not be applied to the minor.

6. At least six credits must be at the 3000 level or above.
A Soil Resources minor consists of 23-25 hours chosen as follows:

**Required Environment and Natural Resources Courses (10 hrs):**
- Environment and Natural Resources 300.01 & 300.02*  *Soil Science* 5 hrs
- Environment and Natural Resources 650**  *Soil Landscapes: Morphology, Genesis and Classification* 5 hrs

**Required Electives (13-15 hrs):**
- Environment and Natural Resources 442  *Soil Management* 5 hrs
- Environment and Natural Resources 540**  *Urban and Sports Turf Soils* 3 hrs
- Environment and Natural Resources 580  *Soil Fertility and Fertilizers* 3 hrs
- Environment and Natural Resources 645**  *Soils of the Tropics* 3 hrs
- Environment and Natural Resources 671**  *Soil Physics* 5 hrs
- Environment and Natural Resources 675**  *Environmental Fate and Impact of Contaminants in Soil & Water* 4 hrs
- Environment and Natural Resources 660**  *Soil Chemical Processes and Environmental Quality* 5 hrs
- Environment and Natural Resources 693  *Individual Studies* 2-5 hrs

* Students using Environment and Natural Resources 300.01 and/or 300.02 for a major requirement must select an additional 5 hours of Environment and Natural Resources curriculum (200 level or above) to satisfy the minor requirements.
** Prerequisites are required.
General Information & Restrictions
1. This minor is not available to students majoring in Agronomy, Horticulture & Crop Science, Plant Health Management, Turfgrass Science, Soil Science or Environmental Science.
2. A minimum overall CPHR for courses comprising the minor shall be 2.0.
3. A minor should be declared at the time a student accumulates 90 hours.
4. A student may double count courses between the minor and GEC requirements only.
5. Courses taken on a pass/non pass basis may not be applied to the minor.

For more information contact
Mark Giese, Academic Administrative Officer & School Secretary
210 Kottman Hall
2021 Coffey Rd.
Columbus, OH 43210
614.292.2265
giese.1@osu.edu
http://senr.osu.edu
Summary of ENR Minor Programs Revisions

Summarized below, in red type, are the revisions to ENR minors in response to the requests of the Science subcommittee of the Arts and Sciences CCI. All of the changes indicated below have been made within the minor program proposals in the PACER system, and resubmitted.

Subject: FW: Semester Conversion Proposal for FAES Minors
Date: Tue, 01 Mar 2011 11:18:00 -0500
From: Jill Pfister <pfister.1@osu.edu>

Two common changes that we need to make on all of the minor sheets include the following.

1. Please include a statement that reads "At least six credits must be at the 3000 level or above" and be sure the minor is set up that way. Done.
2. Guideline #4 at the bottom, which is common across the college, should read "A maximum of one course may overlap between the minor and the GE (Writing and Communication, Foreign Language, Literature, Visual and Performing Arts, Culture and Ideas, Historical Study, Quantitative Reasoning, Data Analysis, Natural Science, Social Science, Cross-Disciplinary Seminar, Service-Learning, Education Abroad). Please be sure this statement is revised to reflect the above statement. Done.

From: James Fredal [mailto:james.fredal@gmail.com]
Sent: Friday, March 04, 2011 11:41 AM
To: Jill Pfister
Cc: Vankeerbergen, Bernadette
Subject: FAES Semester Conversion Proposals

Date: March 4, 2011

Jill:
We are requesting a few changes and corrections on the minors before we send them forward to the full CCI.

Forestry, Fisheries and Wildlife:
- This minor had a number of extraneous documents that should be removed. Done.
- The proposal will need a transition plan for students who are finishing the old Natural Resources minor to clarify what their options are (this will apply to Environmental Science and Society and Environmental Issues as well). The material on the hyperlink is not available, and whatever transition plan is devised should be copied directly into the proposal. ENR minors transition plan has been uploaded to proposal.
- On the PACER form, the minimum required credit hours outside the unit should be
filled in as "0." Done.
· All references to GEC should be changed to GE. Done.
· All courses should be listed with appropriate credit hours. Done.
· Finally, there was a question about the advising sheet. The second paragraph states that "One course is required within each focus area" and then "Two additional courses are required within each focus area." This seems to suggest that students take courses in all three focus areas, but the list suggest that in fact students take all three elective courses within one chose focus area. So, while we understood the intent of that paragraph, the language was initially confusing and could probably be reworded (or even eliminated) to clarify that students merely need to select three courses within one focus area. Text was revised to eliminate confusion as suggested.

Sustainable Agriculture:
· Extraneous documents should also be removed from this proposal. Done.
· References to the GEC changed to GE. Done.
· The program learning goals on the PACER form need to match those listed later under "expected learning outcomes." Also, some of the PACER goals seemed rather general, referring alternately to "several aspects," of sustainable agriculture, "various goals of sustainability," "deeper dimensions of sustainability," and "various dimensions of sustainable agriculture." These goals should probably be made more specific to the content of the minor, or could be eliminated altogether, since learning goals are not a requirement for minor proposals. In other cases, the language might be revised. For example, "planning and executing the student farm," might be "developing and executing plans for the student farm," etc. Learning goals have been revised to be more specific and to be consistent, as requested.
· Finally, quarter numbers should be replaced by semester numbers on the advising sheet, and credit hours should be clear for all courses. Done.

1) Soil Science Minor
· On the PACER form, under the Credit Hour Explanation, on the third line, column A should list 23 credit hours; column C should list 16 credit hours. Done.
· The proposal needs a specific transition plan. ENR minors transition plan has been uploaded to proposal.
· Documents extraneous to the proposal (from the website) should be removed. Done.
· The proposal should provide two discrete advising sheets (one for quarters, one for semesters) using the same format to facilitate comparison. I think this was already done – the quarter advising sheet only differs in format due to final graphics there that will not be finalized for semester version until fall of 2011; thus, done.
· On the advising sheet, guideline #4 refers to the GEC (should be GE) and the categories should align with the GE categories (categories on the advising sheet currently reflect GEC-R requirements). This point is the case for most FAES advising sheets. Done.

2) Rural Sociology Minor
• On the PACER form, under the Credit Hour Explanation, the next to the last line should be filled in with zeroes. **Done.**

• The proposal needs a specific transition plan. **ENR minors transition plan has been uploaded to proposal.**

• Documents extraneous to the proposal (from the website) should be removed. **Done.**

• Several courses, including the required Rurl Soc/ENR 5500, are at the 5000-level or above. This number was designated for undergrad/graduate courses and seems quite advanced for courses (including the entry level course) in the minor. There are no rules limiting the upper range of course numbers for ASC minors, but the committee wanted to query this numbering scheme. **Minor sheet has been revised in online proposal: of the two required courses for the minor, one is 3000-level, and the other, ENR 5500, is intended more as a capstone for the minor. Students may choose from a range of courses from 2000-level and above to fill in the remaining two courses required for the minor.**

• On the last page, guideline #4 refers to the GEC (should be GE) and the categories should align with the GE categories (current categories reflect GEC-R requirements). This point is the case for most FAES advising sheets. **Done.**

3) **Society and Environmental Issues Minor (new)**

• On the PACER form, under the Credit Hour Explanation, a 4-hour prerequisite is listed, but is not explained anywhere else on the proposal. If this is a course prerequisite, it might just be noted on the advising sheet. If it is a prerequisite for the minor, it should be listed on the advising sheet and explained in the proposal. **Done, and comment added to clarify.**

• The learning goals on the PACER form and the learning outcomes inside the proposal should match. **Done.**

• The proposal needs letters of concurrence from 3 departments: Geography, Earth Sciences, and Comparative Studies. **Concurrence received from Comparative Studies (6/2/11), and currently pending from Geography and Earth Sciences (request sent 6/2/2011).**

• Documents extraneous to the proposal (from the website) should be removed. **Done.**

• The proposal could use an expanded rationale that explains who the target audience is for the minor (especially among ASC students), and how the minor fits in with their other minors. **Done.**

• Add credit hours for all courses on the advising sheets. **Done.**

• On the last page, guideline #4 refers to GEC (should be GE) and the categories should align with the GE categories (current categories reflect GEC-R requirements). This point is the case for most FAES advising sheets. **Done.**

4) **Environmental Science Minor (new)**

• On the PACER form, under the Credit Hour Explanation: Minimum prerequisite hours are listed as 3 and maximum prerequisite hours are listed as 40? Are these numbers correct? If so, a note should be added to the semester advising sheet,
prerequisite courses should be added to the course listing and an explanation should be added to the proposal. Credit Hours are now revised in proposal. The 40 hours was due to a single course with several high level prerequisites that have been removed from that course’s semester conversion proposal.

- Documents extraneous to the proposal (from the website) should be removed. **Done.**
- Learning “goals” on the PACER form and the learning “outcomes” listed in the proposal should match. **Done.**
- Several courses for this minor are at the 5000-level or above. This number was designated for undergrad/graduate courses and seems quite advanced for courses in the minor. There are no rules limiting the upper range of course numbers for ASC minors, but the committee wanted to query this numbering scheme. Yes, this minor is intended to include these higher level courses. Most of the courses within the minor are below the 5000 level; in the list of required electives, where students will choose one course, options range from 3000-5000 level, with the 5000-level courses being ones whose prerequisites would be met earlier in the minor. This simply reflects the course sequences in ENR, and that this is a minor in a specific applied science.
- Letters of concurrence should probably be secured from Geography & Earth Sciences. As indicated in an earlier reply, because SENR already offers the Environmental Science major, and this minor simply conforms to the existing major, concurrence should not be needed.
- The proposal should include an expanded rationale that explains who the target audience is (especially for ASC students) and how minor fits with other minors. **Done.**

Thanks.

Jim Fredal

Cc: Bernadette Vankeerbergen
School of Environment and Natural Resources
Transition Plan for ENR Minors

This transition plan covers all existing ENR minors, including:

Soil Science Minor (converted)
Rural Sociology Minor (converted)
Natural Resources Management (terminated*)
  *The NRM minor is being replaced in semesters by three more specific minors (each corresponding with and derived from the four existing majors in ENR):
    - Forestry, Fisheries and Wildlife Minor (FFW major)
    - Society and Environmental Issues Minor (EPDM and NRM majors)
    - Environmental Science Minor (ES major)

Students in all ENR minors may complete the minor as it was offered in quarters, simply by completing the semester equivalents of the courses they would have completed to meet the requirements of the minor under quarters. Each minor includes a sufficient selection of converting courses to make completion possible; any courses not converted to semesters will simply be unavailable as options starting in Autumn of 2012. There will be no attempt to create bridge courses. Credit for courses already completed that were available to the minor under quarters but that are not part of the minor in semesters (e.g., Agr Com 650 in the Rural Sociology minor) will still count toward the completion of the minor.

Current students in ENR minors will be contacted before the start of the Autumn 2011 quarter with a list of available semester courses to complete their minor; any courses that will be terminated in semesters will be highlighted with encouragement for interested students to take them in 2011-2012.

Students in the Natural Resources Management (NRM) Minor (currently, the minor has 35 students: 21 in FAES, 2 in ASC, 3 in BIO, 1 in BUS, 1 in ENG, 1 in HUM, and 6 in SBS) will have the option of either completing the NRM Minor with semester equivalent courses, or changing their minor to one of the more specific new minors that are replacing the NRM minor. Because these new minors require fewer overall credits than the NRM minor, this may mean that some students working toward an NRM Minor will already have met the requirements of one of the new minors once semesters begin.

Enrollment in the NRM Minor will no longer be allowed starting Summer Term, 2012.